THEORETICAL POPULATION BIOLOGY

AN INTERNATIONAL JOURNAL

EDITORS

P. Chesson S. Karlin
K. Dietz B. S. Weir

ASSOCIATE EDITORS

P. Abrams
R. M. Anderson
K. Aoki
J. L. Aron
N. H. Barton
R. B. Campbell
L. Chao
S. Ellner
M. Gatto
I. Hanski
A. Hastings
R. R. Hudson
Y. Iwasa
A. M. John
N. Kaplan
P. Kareiva
K. Lange
R. E. Lenski
S. Lessard
C. Macken
M. Mangel
S. P. Otto
S. W. Pacala
N. Risch
M. Slatkin
T. P. Speed
N. Takahata
P. D. Taylor
M. Uyenoyama
K. Wachter
L. Zhivotovsky

MANAGING EDITOR

M. Feldman

VOLUME 46 • 1994

ACADEMIC PRESS

San Diego New York Boston
London Sydney Tokyo Toronto

Copyright © 1994 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1994 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0040-5809/94 $6.00

This journal is printed on acid-free paper.

Printed by Catherine Press, Ltd., Brugge, Belgium

CONTENTS OF VOLUME 46

Number 1, August 1994

Jorge X. Velasco-Hernández. A Model for Chagas Disease Involving Transmission by Vectors and Blood Transfusion . . . 1

John K. Kelly. The Effect of Scale Dependent Processes on Kin Selection: Mating and Density Regulation 32

Michel Loreau and Wolfgang Ebenhöh. Competitive Exclusion and Coexistence of Species with Complex Life Cycles 58

Peter A. Abrams. Evolutionarily Stable Growth Rates in Size-Structured Populations under Size-Related Competition 78

Rachel Norman, Michael Begon, and Roger G. Bowers. The Population Dynamics of Microparasites and Vertebrate Hosts: The Importance of Immunity and Recovery 96

Number 2, October 1994

Michael Gilpin and Barbara L. Taylor. Reduced Dimensional Population Transition Matrices: Extinction Distributions from Markovian Dynamics 121

R. C. Griffiths and Simon Tavaré. Simulating Probability Distributions in the Coalescent 131

Bryan K. Epperson. Spatial and Space-Time Correlations in Systems of Subpopulations with Stochastic Migration 160

Samuel Karlin and Uri Liberman. Theoretical Recombination Processes Incorporating Interference Effects 198

Steinar Engen and Bernt-Erik Sæther. Optimal Allocation of Resources to Growth and Reproduction 232

Number 3, December 1994

Jochen Kumm, Kevin N. Laland, and Marcus W. Feldman. Gene-Culture Coevolution and Sex Ratios: The Effects of Infanticide, Sex-Selective Abortion, Sex Selection, and Sex-Biased Parental Investment on the Evolution of Sex Ratios. . . 249

Stefano L. Paveri-Fontana and Stefano Focardi. A Theoretical Study of the Socioecology of Ungulates. II. A Dynamic Programming Study of the Stochastic Formulation 279

Marjan Sjerps and Patsy Haccou. Effects of Competition on Optimal Patch Leaving: A War of Attrition 300

10 283HI XL 839
5/95 31249-200 NULB

W. S. C. Gurney, P. H. Crowley, and R. M. Nisbet. Stage-Specific Quiescence as a Mechanism for Synchronizing Life Cycles to Seasons 319
Sabin Lessard. Adaptive Topography in Fertility–Viability Selection Models: The Haplodiploid Case 344
Richard Durrett and Simon Levin. The Importance of Being Discrete (and Spatial) 363

Author Index for Volume 46 395